

P21591.A02



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Toshio MATSUMOTO

Group Art Unit: 1742

Serial No : 10/005,673

Examiner: Unknown

Filed : December 7, 2001

For : POROUS SINTERED BODY OF CALCIUM PHOSPHATE-BASED CERAMIC  
AND METHOD FOR PRODUCING SAME

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Commissioner of Patents and Trademarks  
Washington, DC 20231

Sir :

Pursuant to the duty of disclosure set forth in 37 C.F.R. § 1.56, and in accordance with the provisions of 37 C.F.R. §§ 1.97 and 1.98, Applicant hereby brings to the Examiner's attention the Search Report of the British Patent Office in family member Application No. GB 0129279.6, and the following documents cited therein:

GB 2348872 A;

GB 2192389 A;

GB 2142919 A;

GB 2078696 A;

EP 0278583 A;

EP 0253506 A; and

Derwent Abstract 1985-220756 of JP 60-142857.

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Copies of the foregoing documents and the British Search Report are submitted herewith. The Examiner is referred to the Search Report for the relevance accorded by the Examiner to the cited documents with respect to the claims in the GB application.

The Examiner is requested to consider the aforementioned documents and to indicate such consideration by returning a signed and initialed copy of the PTO-1449 Form with the first Official Action on the merits.

Applicant notes that an Office Action on the Merits has not issued in the instant application. However, if an Office Action on the Merits has issued, and is crossing this statement in the mail, the undersigned hereby authorizes the Commissioner to charge any fee necessary for consideration of this statement, including any payment under 37 C.F.R. 1.17(p), to be charged to Applicant's Deposit Account No. 19-0089.

Should the Examiner have any questions or comments regarding this matter, the undersigned may be contacted at the below-listed telephone number.

Respectfully submitted,  
Toshio MATSUMOTO

  
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May 31, 2002  
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U.S. Department of Commerce  
Patent and Trademark Office

Serial No.  
10/005,673

Applicant  
Toshio MATSUMOTO

Filing Date  
December 7, 2001

Group  
1742

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
		YES	NO											
		2	3	4	8	8	7	2	10/18/00	UNITED KINGDOM				
		2	1	9	2	3	8	9	01/13/88	UNITED KINGDOM				
		2	1	4	2	9	1	9	01/30/85	UNITED KINGDOM				
		2	0	7	8	6	9	6	01/13/82	UNITED KINGDOM				
		0	2	7	8	5	8	3	02/12/88	E.P.O.				
		0	2	5	3	5	0	6	06/15/87	E.P.O.				

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

		1	Derwent Abstract 1985-220756 of JP 60-142847.

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Application No: GB 0129279.6  
 Claims searched: 1-17

Examiner: Colin Clarke  
 Date of search: 1 May 2002

## Patents Act 1977 Search Report under Section 17

### Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK Cl (Ed.T): C1A (APF8,APB3,APB1,APHS)

Int Cl (Ed.7): C01B 25/32; C04B 38/06

Other: ONLINE: WPI, EPODOC, JAPIO

### Documents considered to be relevant:

Category	Identity of document and relevant passage	Relevant to claims
X	GB 2348872 A TOSHIBA see claim 1	1,2,4
X	GB 2192389 A ASAHI see claims 5 & 6	1,2,4
X	GB 2142919 A SUMITOMO see claim 1 & 6 and example 10	1-4
X	GB 2078696 A MITSUBISHI see esp. example 2	1,2,4
X	EP 0278583 A INTERPORE see claim 1	1-4
X	EP 0253506 A KUREHA KAGAKU see claims 2 & 3	1,2,4
X	Derwent Abstract 1985-220756 & JP60-142857 A SUMITOMO	1-4

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X	Document indicating lack of novelty or inventive step	A	Document indicating technological background and/or state of the art.
Y	Document indicating lack of inventive step if combined with one or more other documents of same category.	P	Document published on or after the declared priority date but before the filing date of this invention.
&	Member of the same patent family	E	Patent document published on or after, but with priority date earlier than, the filing date of this application.

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PN - JF60142857 A 19850729  
PD - 1985-07-29  
PR - JP19830247226 19831229  
OPD - 1983-12-29  
TI - BONE CEMENT COMPOSITION  
IN - TAKAGI SHIGE HARUYAMA UCHI SHIGERU OKU TAKASHI  
PA - SUMITOMO CEMENT CO. YAMAUCHI SHIGERU  
IC - A61F2/28 ; A61L27/00 ; C04B38/00

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TI - Bone cement compsn. contg. calcined calcium phosphate cpd. - with defined calcium to phosphorus ratio and physical properties  
PR - JP19830247226 19831229  
PN - JF60142857 A 19850729 DW198536 008pp  
- JP3059703B B 19910911 DW199140 000pp  
PA - (SUMD) SUMITOMO CEMENT CO  
IC - A61F2/28 ; A61L27/00 ; C04B38/00  
AB - J60142857 Bone cement compsn. comprises a calcined calcium phosphate cpd. (e.g. hydroxyapatite such as  $\text{Ca}_5(\text{PO}_4)_3\text{OH}$ ,  $\text{Ca}_{10}(\text{PO}_4)_6(\text{OH})_2$ , etc., calcined at 800-1450 deg.C) of a Ca/P atomic ratio of 1.30-1.80, having a grain size of 0.05-0.5 mm and porosity of 40-90%, with pores of dia. of 1-600 microns and with fine paths leading to the pores. The cpd. contains 10-200% of at least one of e.g. water, sodium chloride injection (or solution), blood and artificial blood-plasma.  
- USE/ADVANTAGE - Compsn. has excellent compatibility with living tissue and adhesiveness to bone, joint, etc., prostheses of metals or ceramics. It also efficiently activates the osteoplastic cells, etc., and suppresses the intrusion of collagen fibre and other harmful objects.  
OPD - 1983-12-29  
AN - 1985-220756 [25]